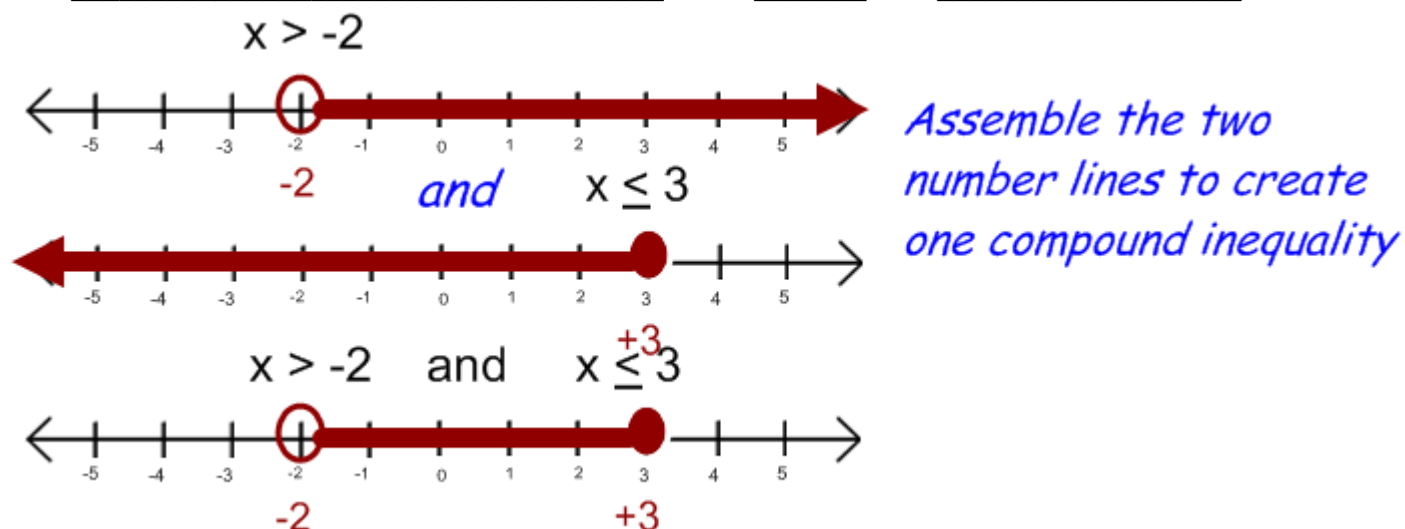


Name: _____ Period: _____ Date: _____



Necessary Terminology	Compound Inequalities Types: "and" & "or"
Inequalities, Expression, Coefficient, Constant, Compound Inequalities, Circle (excludes), Dot (includes)	And $x > -2$ and $x \leq 3$ can be written as a compound inequality $-2 < x \leq 3$ Or $x \leq -2$ or $x > 3$

Draw the Compound Inequality

1	$x > -5$ and $x \leq 4$	Draw Number Line Here
2	$0 < x \leq 6$	
3	$x \leq 0$ or $x > 5$	
4	$x \leq -7$ or $x > -1$	


The **"and" compound inequality** can be written as $-5 < x \leq 4$ which is an abbreviated form of two inequalities connected in this manner $x > -5$ and $x \leq 4$.


How to read this compound inequality $-5 < x \leq 4$.

First hide ≤ 4 and read $-5 < x$ from the variable through the symbol to the number.
"The variable x is greater than negative five."


Second hide $-5 <$ and read $x \leq 4$ from the variable through the symbol to the number.
"The variable x is less than or equal to four."

Write as two separate inequalities and draw on the number line.

1	$-3 < x < 2$	Draw Number Line Here
		

2	$1 \geq x > 5$	
		

Write two separate inequalities and solve for x . Then draw the compound inequality.

3	$1 \geq (x - 1) > 5$	
		

4	$-4 \geq 2(x - 1) > 6$	
		